

Exercise 4

In Exercises 1 through 5, use the method described in Sec. 88 and illustrated in Example 1, Sec. 89, to find the function $f(t)$ corresponding to the given function $F(s)$.

$$F(s) = \frac{s^2 - a^2}{(s^2 + a^2)^2} \quad (a > 0).$$

$$\text{Ans. } f(t) = t \cos at.$$